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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-04-12-02**	**Date: 18-04-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of RCC Drain with Covering Slab at Sadasivappa Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapur Sub Division.	
Agency	:	Sri. Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.	
Customer's Reference	:	BBMP/EE/BTP/WO/234/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	12-04-2017	
Sample ID No	:	2017-04-12-02/01	
Sample Type /Size	:	Precast Cover Slab	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	13/04/2017	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	100.03	250.49	3.127	7857	143.1	18.2	18.2	22.8
2	Cover Slab-2	100.02	250.51	3.129	7856	138.8	17.7	17.7	22.1
3	Cover Slab-3	100.03	250.50	3.125	7857	145.2	18.5	18.5	23.1

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Prepared by
Harshitha

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97
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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-18-01** **Date: 27-03-17**
Customer	:	Asisstant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain with Covering Slab at Sadasivappa Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapur Sub Division.
Agency	:	Sri.Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/234/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-17
Sample ID No	:	2017-03-18-01-03
Sample Type	:	Kamadhenu Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	21-03-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Kamadhenu	Fe500	8mm	0.392	526	613	19.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Kamadhenu	Fe500	8mm	Satisfactory	Satisfactory

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-18-01** **Date: 27-03-17**
Customer	:	Asisstant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain with Covering Slab at Sadasivappa Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapur Sub Division.
Agency	:	Sri.Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/234/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-17
Sample ID No	:	2017-03-18-01-04
Sample Type	:	Kamadhenu Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	21-03-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Kamadhenu	Fe500	10mm	0.612	555	638	21.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Kamadhenu	Fe500	10mm	Satisfactory	Satisfactory

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-18-01**	**Date: 27-03-17**
Customer	:	Asisstant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of RCC Drain with Covering Slab at Sadasivappa Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapur Sub Division.	
Agency	:	Sri.Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.	
Customer's Reference	:	BBMP/EE/BTP/WO/234/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	18-03-17	
Sample ID No	:	2017-03-18-01-05	
Sample Type	:	Kamadhenu Fe 500	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	21-03-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Kamadhenu	Fe500	12mm	0.888	568	650	22.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Kamadhenu	Fe500	12mm	Satisfactory	Satisfactory

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Prepared By:
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-02-20-04** **Date: 21-03-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain with Covering Slab at Sadasivappa Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapur Sub Division.
Agency	:	Sri.Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/234/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-02-17
Sample ID No	:	2017-02-20-04-01
Sample Type	:	Ultratech 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	21-02-2017 to 21-03-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.2	–
2	Finess by Air permeablity method (m2/kg, Min)	294.5	225m^2/kg, Min
3	Density (gm/cc)	3.1	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	280 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-02-20-04** **Date: 21-03-2017**

Sample ID No : **2017-02-20-04-01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	310 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
	28 Days	58.0N/mm^2	Not less than 53 N/mm^2

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Harshitha

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-18-01** **Date: 27-03-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain with Covering Slab at Sadasivappa Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapur Sub Division.
Agency	:	Sri.Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/234/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	18-03-17
Sample ID No	:	2017-03-18-01-01(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	20-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100	100
2	40 mm	170	170	3.4	96.6	95-100
3	20 mm	1880	2050	41	59.0	30-70
4	10 mm	1980	4030	80.6	19.4	10-35
5	4.75 mm	890	4920	98.4	1.6	0-5
6	Pan	80	5000	100	0.0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-18-01** **Date: 27-03-2017**

Sample ID No : 2017-03-18-01-01(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	12.4	_
2	Elongation Index(%)	13.8	_
3	Specific Gravity	2.59	_
4	Bulk Density(Loose) (Kg/l)	1.48	_
5	Bulk Density(Compacted) (Kg/l)	1.55	_
6	Water Absorption(%)	0.22	_

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Harshitha

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-18-01** **Date: 27-03-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain with Covering Slab at Sadasivappa Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapur Sub Division.
Agency	:	Sri.Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer Reference	:	BBMP/EE/BTP/WO/234/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-17
Sample ID No	:	2017-03-18-01-01(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	20-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	192	192	3.84	96.16	100
2	20 mm	2018	2210	44.2	55.8	95-100
3	10 mm	2302	4512	90.24	9.76	25-55
4	4.75 mm	430	4942	98.84	1.16	0-5
5	Pan	58	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-18-01** **Date: 27-03-2017**

Sample ID No : 2017-03-18-01-01(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	13.4	_
2	Elongation Index(%)	12.4	_
3	Specific Gravity	2.67	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.56	_
6	Water Absorption(%)	0.24	_
7	Ten percent fine value(KN)	191.5	_
8	Aggregate crushing Value(%)	22.4	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	23.8	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-03-18-01** **Date: 27-03-17**
Customer	:	Asisstant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain with Covering Slab at Sadasivappa Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapur Sub Division.
Agency	:	Sri.Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/234/2016-17
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-17
Sample ID No	:	2017-03-18-01-02
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	20-03-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	52	79	7.9	92.1	60-95	75-100	85-100	95-100
4	1.18 mm	57	136	13.6	86.4	30-70	55-90	75-100	90-100
5	600 micron	316	452	45.2	54.8	15-34	35-59	60-79	80-100
6	300 micron	263	715	71.5	28.5	5-20	8-30	12-40	15-50
7	150 micron	199	914	91.4	8.6	0-10	0-10	0-10	0-15
8	Pan	86	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Page 1/2

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-03-18-01** **Date: 27-03-17**

Sample ID No : 2017-03-18-01-02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	2.10	–
2	Specific Gravity	2.52	–
3	Material finer than 75 micron(%)	4.8	Not more than 15 percent

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Quality Manager

****End of Report****

Jadhav AE

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-03-28-04** **Date: 01-04-17**
Customer	:	Asisstant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain with Covering Slab at Sadasivappa Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapur Sub Division.
Agency	:	Sri.Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/234/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-17
Sample ID No	:	2017-03-28-04-01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	31/03/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	24/03/2017	31/03/2017	150.35 X 150.28 X 150.54	22595	8.320	366.0	16.2	16.6
2	PCC	M20	24/03/2017	31/03/2017	150.22 X 150.12 X 150.34	22551	8.432	376.6	16.7	
3	PCC	M20	24/03/2017	31/03/2017	150.35 X 150.28 X 150.99	22595	8.765	381.8	16.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-04-01-04** **Date: 04-04-17**
Customer	:	Asisstant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain with Covering Slab at Sadasivappa Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapur Sub Division.
Agency	:	Sri.Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/234/2016-17
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-04-17
Sample ID No	:	2017-04-01-04-01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M20	27/03/2017	03/04/2017	150.87 X 150.12 X 150.17	22649	8.110	389.6	17.2	16.8
2	PCC	M20	27/03/2017	03/04/2017	150.24 X 150.79 X 150.00	22655	8.169	371.5	16.4	
3	PCC	M20	27/03/2017	03/04/2017	150.55 X 150.15 X 150.13	22605	8.255	377.5	16.7	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harsitha

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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